

# Appendix L

## “Must-See” Math Websites



This list will get you started on finding a variety of websites to support your planning and delivery of mathematics instruction. Some of them offer fun classroom activities, while others provide valuable teacher resources. Many of the sites are free, but some may require a fee to subscribe.

### ***Student Activities***

#### **Applets—Internet-Based Applications**

The applets on the following sites provide computer-based mathematical manipulatives or learning tools at the elementary level.

- [www.illuminations.nctm.org](http://www.illuminations.nctm.org)—See the Tools section of the National Council of Teachers of Mathematics website for interactive activities for students of all ages.
- [www.eduplace.com/kids/mw/manip/mn\\_2.html](http://www.eduplace.com/kids/mw/manip/mn_2.html)—This Houghton Mifflin website has a variety of e-manipulatives, including base-ten blocks, counters, coins and bills, connecting cubes, fractions and decimals, number lines, addition tables, multiplication tables, and the 100 Chart.
- <http://arcytech.org/java/>—This website contains Java applets that allow students to explore concepts related to money, time, and fractions.
- <http://matti.usu.edu/nlvm/nav/vlibrary.html>—This Utah State University website has virtual manipulatives for interactive mathematics.

#### **Interactive Games**

The following sites provide students with fun activities to reinforce and to practice their mathematics skills.

- [www.funbrain.com](http://www.funbrain.com)—A variety of math skills can be reviewed through interactive games such as Measure It!, Math Baseball, Shape Surveyor, Change Maker, and Fresh Baked Fractions. The activities are for grades K–12.
- [www.harcourtschool.com/menus/math\\_advantage.html](http://www.harcourtschool.com/menus/math_advantage.html)—Harcourt School Publishers' website offers interactive math games by grade level.
- [www.mathplayground.com/](http://www.mathplayground.com/)—This website contains interactive games, including Math Hoops and Math Olympics. The activities focus on basic facts, logic, and problem solving.
- <http://nces.ed.gov/nceskids/graphing/>—This site of the National Center for Education Statistics allows intermediate students to enter data to create a variety of graphs.
- [www.oswego.org/staff/cchamber/techno/games.htm](http://www.oswego.org/staff/cchamber/techno/games.htm)—The Oswego City School District in Oswego, New York, website contains a large variety of interactive games.
- [www.toonuniversity.com/activitylist.asp?dept=MATH](http://www.toonuniversity.com/activitylist.asp?dept=MATH)—Toon University offers a variety of interactive math games for grades 1 to 6 on its website.

### **Problem Solving**

The following sites provide activities with a strong emphasis on the development of students' problem-solving skills.

- [www.eduplace.com/math/brain/index.html](http://www.eduplace.com/math/brain/index.html)—This Houghton Mifflin website contains brain teasers for grades 3 to 8.
- [www.mathcats.com/storyproblems/housecat2.html](http://www.mathcats.com/storyproblems/housecat2.html)—This site contains story problems written by students. The answers are scrambled, but they appear when the cursor is moved across the screen.
- <http://mathforum.org/mathmagic/>—The MathMagic website contains posted challenges intended to motivate students to use computer technology while increasing problem-solving strategies and communication skills.
- [www.mathstories.com](http://www.mathstories.com)—The House of Math Word Problems on this site contain problems at the elementary level in both English and Spanish.
- [www.wits.ac.za/ssproule/elem\\_pow.html](http://www.wits.ac.za/ssproule/elem_pow.html)—This Problem of the Week website has links to other POW sites at all academic levels and includes a site rating system.

### **Parent Resources**

Parents who are interested in websites where they can find information and activities to support their students' understanding of mathematics can check out the following.

- [www.learningresources.com](http://www.learningresources.com)—This site has a parent link with product information on educational games and toys that support students' learning outside of the classroom.
- [www.eduplace.com/parents/index.html](http://www.eduplace.com/parents/index.html)—This Houghton Mifflin website offers parents a math glossary, lessons for home, interactive games, and literature suggestions for each grade level.
- [www.ed.gov/parents/landing.jhtml?src=fp](http://www.ed.gov/parents/landing.jhtml?src=fp)—The U.S. Department of Education offers a variety of resources for parents, including publications that provide ideas on ways to help children with education issues, on this website.
- <http://mathforum.org/parents.citizens.html>—The Drexel University Math Forum has a Parents and Citizens section of their website with a variety of links from resources to discussion groups.
- [www.riverdeep.net/parents/?SECTION=Parents](http://www.riverdeep.net/parents/?SECTION=Parents)—Riverdeep's website offers educational games, commercial software information, and math tutorials for helping students learn outside of the classroom.

## Teacher Resources

### Lesson Plans, Flash Cards, Worksheets, and More

The following sites provide a variety of time-saving services (e.g., creation of flash cards, bingo cards, rubrics); provide lesson plans and activity ideas; or support teachers with information to assist them in planning and delivering lessons and the assessment of mathematics understanding.

- [www.aplusmath.com](http://www.aplusmath.com)—This website allows teachers to create flash cards and worksheets, and it offers a variety of math games.
- [www.illuminations.nctm.org](http://www.illuminations.nctm.org)—For lesson plans and activity ideas at all grade levels, visit the National Council of Teachers of Mathematics website.
- [www.math.com/teachers.html](http://www.math.com/teachers.html)—This site offers lesson plans, classroom resources, links to “free stuff,” problems of the week, worksheet generators, and online tutorial assistance.
- <http://rubistar.4teachers.org/index.php>—RubiStar assists teachers in the development of rubrics. Samples are shown and teachers can modify them to meet specific needs.
- [www.sci.mus.mn.us/sln/tf/nav/shapescluster.html](http://www.sci.mus.mn.us/sln/tf/nav/shapescluster.html)—The Science Museum of Minnesota website offers ideas for teachers and links to literature in the Shapes Cluster section.
- [www.teachersnetwork.org/TeachNet](http://www.teachersnetwork.org/TeachNet)—Find lessons written by teachers from various schools across the country on this site.
- [www.teacherweb.com](http://www.teacherweb.com)—This site provides information on a standardized format website on which teachers can post and review information such as homework assignments, tests, announcements, a bio, and pictures. No coding needs to be done, so teachers with limited computer experience can participate. This is an inexpensive alternative to having a personal website.
- [www.teachingmadeeasier.com](http://www.teachingmadeeasier.com)—This website allows teachers to easily create bingo cards, flash cards, worksheets, and games tailored to students’ levels and specific skills.

### Professional Development

Take a look at the following sites to find professional development materials (text and video), as well as information on skill development activities such as seminars and conferences.

- [www.aimsedu.org/index.html](http://www.aimsedu.org/index.html)—The Activities Integrating Mathematics and Science (AIMS) website includes sample activities, information on AIMS professional development, an online store, and other teacher resources.
- [www.ascd.org](http://www.ascd.org)—The Association for Supervision and Curriculum Development (ASCD) website contains information on current education topics, various publications, and ASCD professional development activities such as conferences, workshops, and onsite training.
- [www.ber.org](http://www.ber.org)—This Bureau of Education and Research (BER) site provides information on seminars, conferences, video-based online learning, and video training resources.
- [www.heinemann.com/workshops.asp](http://www.heinemann.com/workshops.asp)—Heinemann’s website offers a list of workshops presented by Heinemann speakers, as well as teacher resource materials suitable for school study groups or district professional development.
- [www.mathsolutions.com](http://www.mathsolutions.com)—Math Solutions offers professional development resources including books, videotapes, five-day inservice courses, year-round one-day sessions, and distance coaching.
- [www.nctm.org](http://www.nctm.org)—You can find information on regional and national conferences sponsored by the National Council of Teachers of Mathematics (NCTM) on this website, as well as a variety of professional development materials.

### Sources for the Purchase of Resource Books, Manipulatives, Software, and More

Professional development and classroom mathematics materials can be purchased through the following websites.

- [www.edmark.com/prod/math/](http://www.edmark.com/prod/math/): Edmark—educational software products
- [www.etacuisenaire.com](http://www.etacuisenaire.com): ETA/Cuisenaire Company—manipulative-based educational and supplemental materials
- [www.heinemann.com](http://www.heinemann.com): Heinemann—teacher books for professional development
- [www.lakeshorelearning.com](http://www.lakeshorelearning.com): Lakeshore Learning Materials—manipulatives and classroom supplies
- [www.learningresources.com](http://www.learningresources.com): Learning Resources—manipulatives and teacher resource materials
- [www.scholastic.com](http://www.scholastic.com): Scholastic—children’s literature and teacher resource materials
- [www.teacherspecialty.com](http://www.teacherspecialty.com): Teacher Specialty—teacher resource materials for all grade levels
- [www.tomsnyder.com](http://www.tomsnyder.com): Tom Snyder Productions—commercial software products available by grade level
- [www.wrightgroup.com](http://www.wrightgroup.com): Wright Group—professional development and classroom mathematics materials